

AMENDMENTS TO THE CLAIMS

1. (Previously Presented) A digital camera having an electronic flash device using a light-emitting diode as a flash light source, comprising:

a non-volatile memory which stores correction information for correcting white balance of an image obtained by flash shooting using the electronic flash device, the non-volatile memory storing the correction information that is set based on a detection result of a color temperature of light actually emitted from the electronic flash device, wherein the correction information is for the light only of said light-emitting diode; and

a white balance correcting device which corrects white balance of the image obtained by flash shooting using the electronic flash device based on the correction information stored in the non-volatile memory.

2. (Previously Presented) A digital camera having an electronic flash device using a light-emitting diode as a flash light source, comprising:

a non-volatile memory which stores correction information for correcting white balance of an image obtained by flash shooting, wherein the correction information is for light only of said light-emitting diode,

a white balance correcting device which corrects white balance of the image obtained by flash shooting based on the correction information stored in the non-volatile memory,

a modification information storage device which stores modification information for correcting the correction information stored in the non-volatile memory, the modification information storage device storing the modification information required to make the correction information stored in the non-volatile memory coincident with correction information set based on a detection result of a color temperature of light actually emitted from the electronic flash device,

a modifying device which modifies the correction information based on the modification information stored in the modification information storage device; and

the white balance correcting device corrects the white balance of the image obtained by flash shooting based on the correction information modified by the modifying device.

3. (Withdrawn) A digital camera having an electronic flash device using a light-emitting diode as a flash light source, comprising:

a storage device which stores correction information for correcting white balance of an image obtained by flash shooting,

a white balance correcting device which corrects white balance of the image obtained by flash shooting based on the correction information stored in the storage device,

a temperature detecting device which detects an ambient temperature of the light-emitting diode,

a modification information storage device which stores modification information for modifying the correction information stored in the storage device, the modification information storage device storing the modification information of the correction information based on a change in an ambient temperature of the light-emitting diode,

a modifying device which modifies the correction information stored in the storage device based on a detection result of the temperature detecting device and the modification information stored in the modification information storage device; and

the white balance correcting device corrects white balance of the image obtained by flash shooting based on the correction information modified by the modifying device.

4. (Withdrawn) A digital camera having an electronic flash device using a light-emitting diode as a flash light source, comprising:

a storage device which stores correction information for correcting white balance of an image obtained by flash shooting,

a white balance correcting device which corrects white balance of an image obtained by flash shooting based on the correction information stored in the storage device,

a current detecting device which detects a value of current applied to the light-emitting diode,

a modification information storage device which stores modification information for the correction information based on a change in a value of current applied to the light-emitting

diode, the modification information storage device storing the modification information for modifying the correction information stored in the storage device.

5. (Previously Presented) The digital camera according to claim 1, further comprising an input device for inputting the white balance correction information, wherein the non-volatile memory stores the white balance correction information inputted through the input device.

6. (Previously Presented) The digital camera according to claim 2, further comprising an input device for inputting the modification information, wherein the modification information storage device stores the modification information inputted through the input device.

7. (Previously Presented) The digital camera according to claim 1, wherein the correction information is set based on a characteristic of the LED.

8. (Previously Presented) The digital camera according to claim 2, wherein the correction information is set based on a characteristic of the LED.

9. (Previously Presented) The digital camera according to claim 7, wherein the characteristic of the LED is stored in the non-volatile memory as an initial characteristic of the LED during manufacturing or is stored in the non-volatile memory as the characteristic of the LED changes with time.

10. (Previously Presented) The digital camera according to claim 8, wherein the characteristic of the LED is stored in the non-volatile memory as an initial characteristic of the LED during manufacturing or is stored in the non-volatile memory as the characteristic of the LED changes with time.

11. (New) A method of correcting white balance of an image, comprising:
emitting light from an electronic flash device using a LED as a flash light source;
detecting color temperature of light actually emitted from the electronic flash device using a light detecting device;
calculating correction information for correcting white balance of an image obtained by flash shooting using the electronic flash device based on the detection result of the color temperature of the emitted light, wherein the correction information is for light only of the LED;
storing the calculated correction information in a non-volatile memory;
capturing an image of a subject by flash shooting using the electronic flash device; and
correcting white balance of the captured image based on the correction information stored in the non-volatile memory,
wherein the steps of emitting, detecting, calculating, and storing are executed prior to the step of capturing the image.

12. (New) A method of correcting white balance of an image, comprising:
emitting light from an electronic flash device using a LED as a flash light source;
detecting color temperature of light actually emitted from the electronic flash device using a light detecting device;
calculating modification information based on a difference between correction information stored in a non-volatile memory and correction information set based on a detection result of a color temperature of light actually emitted from the electronic flash device;
storing the calculated modification information in a modification information storage device;
capturing an image of a subject by flash shooting using the electronic flash device;
modifying the correction information in the non-volatile memory based on the modification information stored in the modification information storage device; and
correcting the white balance of the image obtained by flash shooting based on the modified correction information,

wherein the steps of emitting, detecting, calculating, and storing are executed prior to the step of capturing the image.
